

# wwPDB X-ray Structure Validation Summary Report (i)

Jun 7, 2020 - 01:53 am BST

PDB ID	:	6H2C
$\operatorname{Title}$	:	Structure of BlaC from Mycobacterium tuberculosis bound to the trans-
		enamine adduct derived from clavulanic acid.
Authors	:	Tassoni, R.; Pannu, N.S.; Ubbink, M.
Deposited on		
$\operatorname{Resolution}$	:	1.93  Å(reported)

This is a wwPDB X-ray Structure Validation Summary Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org A user guide is available at https://www.wwpdb.org/validation/2017/XrayValidationReportHelp with specific help available everywhere you see the (i) symbol.

The following versions of software and data (see references (1)) were used in the production of this report:

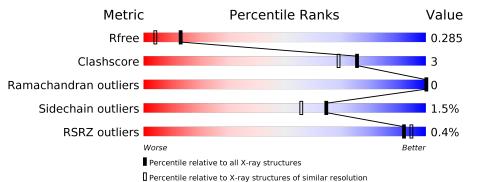
MolProbity		4.02b-467 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)		1.13
EDS	:	2.11
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
$\operatorname{Refmac}$	:	5.8.0158
$\operatorname{CCP4}$	:	$7.0.044 (\mathrm{Gargrove})$
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.11

# 1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: X-RAY DIFFRACTION

The reported resolution of this entry is 1.93 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries},{ m resolution\ range}({ m \AA}))$
$R_{free}$	130704	4310 (1.96-1.92)
Clashscore	141614	1023 (1.94-1.94)
Ramachandran outliers	138981	1007 (1.94-1.94)
Sidechain outliers	138945	1007 (1.94-1.94)
RSRZ outliers	127900	4250 (1.96-1.92)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain					
1	А	274	% 91%	6%	•••			
1	В	274	90%	8%	·			

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:



Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
6	CO2	В	405	-	Х	-	-



# 2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 4210 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

• Molecule 1 is a protein called Beta-lactamase.

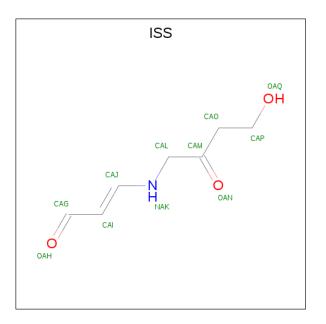
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	А	268	Total 2013	C 1261	N 355	O 390	S 7	0	1	0
1	В	268	Total 2013	C 1260	$rac{N}{355}$	O 391	${ m S} 7$	0	1	0

Chain	Residue	Modelled	Actual	Comment	Reference
A	28	MET	-	initiating methionine	UNP A0A0T9EA39
A	294	LEU	-	expression tag	UNP A0A0T9EA39
A	295	GLU	-	expression tag	UNP A0A0T9EA39
А	296	HIS	-	expression tag	UNP A0A0T9EA39
A	297	HIS	-	expression tag	UNP A0A0T9EA39
А	298	HIS	-	expression tag	UNP A0A0T9EA39
A	299	HIS	-	expression tag	UNP A0A0T9EA39
А	300	HIS	-	expression tag	UNP A0A0T9EA39
A	301	HIS	-	expression tag	UNP A0A0T9EA39
В	28	MET	-	initiating methionine	UNP A0A0T9EA39
В	294	LEU	-	expression tag	UNP A0A0T9EA39
В	295	GLU	-	expression tag	UNP A0A0T9EA39
В	296	HIS	-	expression tag	UNP A0A0T9EA39
В	297	HIS	-	expression tag	UNP A0A0T9EA39
В	298	HIS	-	expression tag	UNP A0A0T9EA39
В	299	HIS	-	expression tag	UNP A0A0T9EA39
В	300	HIS	-	expression tag	UNP A0A0T9EA39
В	301	HIS	-	expression tag	UNP A0A0T9EA39

There are 18 discrepancies between the modelled and reference sequences:

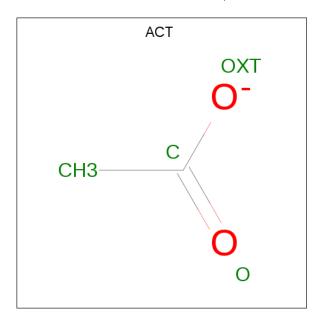
• Molecule 2 is (2E)-3-[(4-hydroxy-2-oxobutyl)amino]prop-2-enal (three-letter code: ISS) (formula: C<sub>7</sub>H<sub>11</sub>NO<sub>3</sub>).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	1	Total C N O 11 7 1 3	0	0
2	В	1	Total C N O 11 7 1 3	0	0

 $\bullet\,$  Molecule 3 is ACETATE ION (three-letter code: ACT) (formula:  ${\rm C_2H_3O_2}).$ 



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
3	А	1	$\begin{array}{ccc} \text{Total}  \text{C}  \text{O} \\ 4  2  2 \end{array}$	0	0

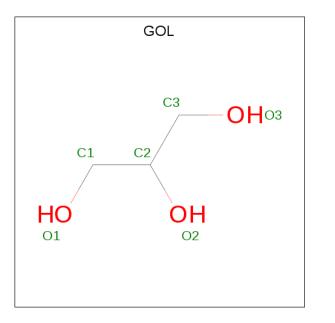
Continued on next page...



Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
3	В	1	$\begin{array}{ccc} \text{Total}  \text{C}  \text{O} \\ 4  2  2 \end{array}$	0	0

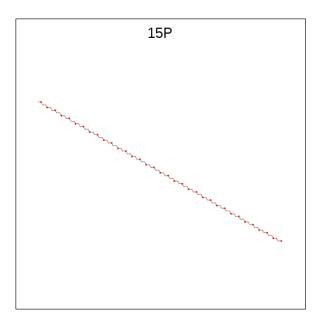
• Molecule 4 is GLYCEROL (three-letter code: GOL) (formula:  $C_3H_8O_3$ ).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	А	1	Total 6	${ m C} { m 3}$	O 3	0	0

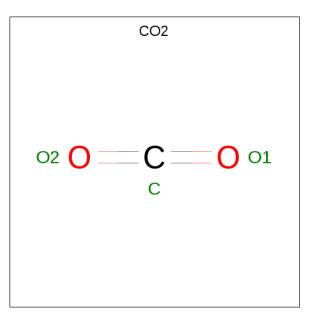
• Molecule 5 is POLYETHYLENE GLYCOL (N=34) (three-letter code: 15P) (formula:  $C_{69}H_{140}O_{35}$ ).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	В	1	$\begin{array}{ccc} {\rm Total} & {\rm C} & {\rm O} \\ 8 & 5 & 3 \end{array}$	0	0
5	В	1	Total C O 17 11 6	0	0

• Molecule 6 is CARBON DIOXIDE (three-letter code: CO2) (formula:  $CO_2$ ).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	
6	В	1	Total 3	С 1	O 2	0	0

• Molecule 7 is water.



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	А	56	$\begin{array}{cc} {\rm Total} & {\rm O} \\ 56 & 56 \end{array}$	0	0
7	В	56	$\begin{array}{cc} {\rm Total} & {\rm O} \\ 56 & 56 \end{array}$	0	0



# 3 Residue-property plots (i)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density (RSRZ > 2). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

SIH SIH SIH SIH SIH SIH SIH SIH

- Chain A:
   91%
   6% · ·

   8
   92
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
   9
- Molecule 1: Beta-lactamase



# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants	39.65Å $41.98$ Å $76.92$ Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$78.40^{\circ}$ $89.95^{\circ}$ $89.75^{\circ}$	-
Resolution (Å)	41.12 - 1.93	Depositor
	41.12 - 1.93	EDS
% Data completeness	$94.4 \ (41.12 - 1.93)$	Depositor
(in resolution range)	$94.4 \ (41.12 - 1.93)$	EDS
R <sub>merge</sub>	(Not available)	Depositor
R <sub>sym</sub>	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.66 (at 1.94 \text{\AA})$	Xtriage
Refinement program	REFMAC 5.8.0189	Depositor
D D	0.229 , $0.267$	Depositor
$R, R_{free}$	0.242 , $0.285$	DCC
$R_{free}$ test set	1723 reflections $(5.01%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	12.6	Xtriage
Anisotropy	0.191	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.41 , $38.5$	EDS
L-test for $twinning^2$	$< L >=0.48, < L^2>=0.31$	Xtriage
Estimated twinning fraction	0.028 for h,-k,-l	Xtriage
$F_o, F_c$ correlation	0.89	EDS
Total number of atoms	4210	wwPDB-VP
Average B, all atoms $(Å^2)$	14.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 12.93% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>Theoretical values of  $\langle |L| \rangle$ ,  $\langle L^2 \rangle$  for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.



<sup>&</sup>lt;sup>1</sup>Intensities estimated from amplitudes.

# 5 Model quality (i)

## 5.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: ISS, GOL, CO2, ACT,  $15\mathrm{P}$ 

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with |Z| > 5 is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5
1	А	0.72	0/2055	0.89	7/2805~(0.2%)
1	В	0.67	0/2055	0.90	9/2805~(0.3%)
All	All	0.70	0/4110	0.89	16/5610~(0.3%)

There are no bond length outliers.

The worst 5 of 16 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$\mathbf{Ideal}(^{o})$
1	А	244	ARG	NE-CZ-NH2	-7.46	116.57	120.30
1	В	65	ARG	NE-CZ-NH1	7.07	123.83	120.30
1	А	65	ARG	NE-CZ-NH1	7.05	123.82	120.30
1	А	244	ARG	NE-CZ-NH1	7.02	123.81	120.30
1	А	65	ARG	NE-CZ-NH2	-6.49	117.05	120.30

There are no chirality outliers.

There are no planarity outliers.

#### 5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	А	2013	0	1986	10	0
1	В	2013	0	1984	15	0
2	А	11	0	10	1	0
2	В	11	0	10	1	0

Continued on next page...



Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	А	12	0	9	0	0
3	В	4	0	3	0	0
4	А	6	0	8	1	0
5	В	25	0	30	4	0
6	В	3	0	0	0	0
7	А	56	0	0	0	0
7	В	56	0	0	0	0
All	All	4210	0	4040	25	0

Continued from previous page...

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 3.

The worst 5 of 25 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:116:THR:H	1:A:119:GLN:HE21	1.31	0.79
1:B:210[A]:THR:HG21	5:B:404:15P:H15	1.65	0.79
1:A:263[A]:VAL:HG12	1:A:281:LEU:HD22	1.65	0.77
1:A:263[A]:VAL:CG1	1:A:281:LEU:HD22	2.17	0.75
1:B:263:VAL:CG1	1:B:281:LEU:HD22	2.18	0.73

There are no symmetry-related clashes.

### 5.3 Torsion angles (i)

#### 5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Perce	$\mathbf{ntiles}$
1	А	267/274~(97%)	263~(98%)	4 (2%)	0	100	100
1	В	267/274~(97%)	262~(98%)	5(2%)	0	100	100
All	All	534/548~(97%)	525~(98%)	9 (2%)	0	100	100

There are no Ramachandran outliers to report.



#### 5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	А	205/211~(97%)	201~(98%)	4 (2%)	55 42
1	В	$205/211 \ (97\%)$	203~(99%)	2(1%)	76 71
All	All	410/422 (97%)	404 (98%)	6 (2%)	65 56

5 of 6 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	140	LEU
1	В	171	LEU
1	А	171	LEU
1	А	109	GLN
1	В	140	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 7 such sidechains are listed below:

Mol	Chain	Res	Type
1	А	194	GLN
1	В	119	GLN
1	В	88	HIS
1	А	109	GLN
1	В	109	GLN

#### 5.3.3 RNA (i)

There are no RNA molecules in this entry.

#### 5.4 Non-standard residues in protein, DNA, RNA chains (i)

There are no non-standard protein/DNA/RNA residues in this entry.



### 5.5 Carbohydrates (i)

There are no carbohydrates in this entry.

### 5.6 Ligand geometry (i)

#### 10 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with |Z| > 2 is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Tune	Chain	Res	Link	Bo	ond leng	$\mathbf{ths}$	Bo	ond ang	les
	Type	Cham	nes		Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
3	ACT	В	402	-	$1,\!3,\!3$	1.86	0	$0,\!3,\!3$	0.00	-
6	CO2	В	405	-	2,2,2	2.32	2(100%)	$_{0,1,1}$	0.00	-
5	15P	В	403	-	7, 7, 103	0.52	0	$6,\!6,\!102$	0.79	0
3	ACT	А	403	-	$1,\!3,\!3$	2.18	1(100%)	$0,\!3,\!3$	0.00	-
3	ACT	А	402	-	$1,\!3,\!3$	2.11	1 (100%)	$0,\!3,\!3$	0.00	-
5	15P	В	404	-	16, 16, 103	0.67	0	$15,\!15,\!102$	0.85	1 (6%)
2	ISS	А	401	1	9,10,10	1.30	1 (11%)	6,10,10	2.21	1(16%)
2	ISS	В	401	1	9,10,10	1.28	1 (11%)	6,10,10	2.11	1(16%)
4	GOL	А	405	-	5, 5, 5	0.73	0	5, 5, 5	1.17	1 (20%)
3	ACT	А	404	_	1,3,3	1.95	0	$0,\!3,\!3$	0.00	-

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	15P	В	403	-	-	4/5/5/101	-
2	ISS	В	401	1	-	3/8/9/9	-
5	15P	В	404	-	-	8/14/14/101	-
4	GOL	А	405	-	-	4/4/4/4	-
2	ISS	А	401	1	-	2/8/9/9	_

The worst 5 of 6 bond length outliers are listed below:



Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
2	В	401	ISS	CAJ-CAI	-3.06	1.31	1.37
2	А	401	ISS	CAJ-CAI	-2.98	1.32	1.37
6	В	405	CO2	O2-C	-2.38	1.16	1.22
6	В	405	CO2	O1-C	-2.27	1.16	1.22
3	А	403	ACT	CH3-C	2.18	1.51	1.48

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	А	401	ISS	CAL-NAK-CAJ	-5.11	118.08	123.50
2	В	401	ISS	CAL-NAK-CAJ	-4.44	118.79	123.50
5	В	404	15P	C5-O2-C4	2.56	124.38	113.29
4	А	405	GOL	O3-C3-C2	2.12	120.38	110.20

There are no chirality outliers.

5 of 21 torsion outliers are listed below:

Mol	Chain	$\mathbf{Res}$	Type	Atoms
2	А	401	ISS	OAH-CAG-CAI-CAJ
2	А	401	ISS	CAM-CAO-CAP-OAQ
2	В	401	ISS	OAH-CAG-CAI-CAJ
4	А	405	GOL	C1-C2-C3-O3
5	В	403	15P	O1-C3-C4-O2

There are no ring outliers.

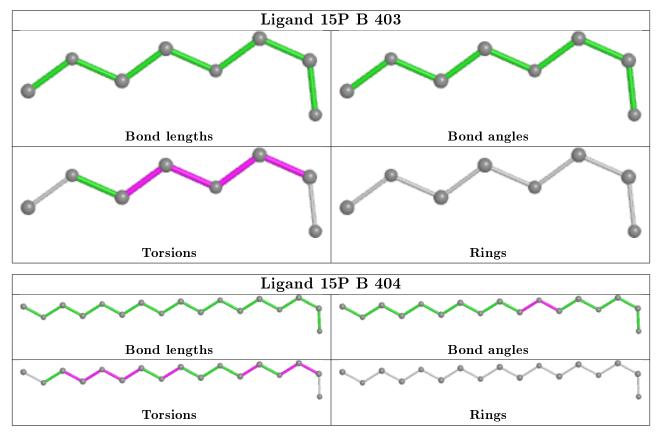
4 monomers are involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	В	404	15P	4	0
2	А	401	ISS	1	0
2	В	401	ISS	1	0
4	А	405	GOL	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and



any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



### 5.7 Other polymers (i)

There are no such residues in this entry.

### 5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.



## 6 Fit of model and data (i)

## 6.1 Protein, DNA and RNA chains (i)

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median,  $95^{th}$  percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q< 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ $>$	$\# RSRZ {>}2$	$OWAB(Å^2)$	Q<0.9
1	А	268/274~(97%)	0.01	2 (0%) 87 91	8, 13, 26, 53	0
1	В	268/274~(97%)	-0.02	0 100 100	7, 13, 25, 38	0
All	All	536/548~(97%)	-0.01	2 (0%) 92 95	7, 13, 26, 53	0

All (2) RSRZ outliers are listed below:

Mol	Chain	$\mathbf{Res}$	Type	RSRZ
1	А	28	MET	3.4
1	А	268	ALA	2.1

## 6.2 Non-standard residues in protein, DNA, RNA chains (i)

There are no non-standard protein/DNA/RNA residues in this entry.

## 6.3 Carbohydrates (i)

There are no carbohydrates in this entry.

## 6.4 Ligands (i)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median,  $95^{th}$  percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathbf{\AA}^2)$	$Q{<}0.9$
3	ACT	А	403	4/4	0.67	0.18	$29,\!30,\!31,\!33$	0
5	15P	В	404	17/104	0.69	0.24	$31,\!35,\!38,\!39$	0
5	15P	В	403	8/104	0.72	0.23	$33,\!39,\!40,\!42$	0

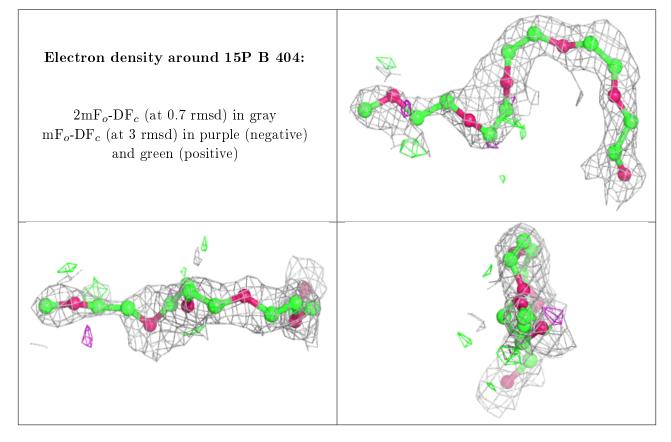
Continued on next page...



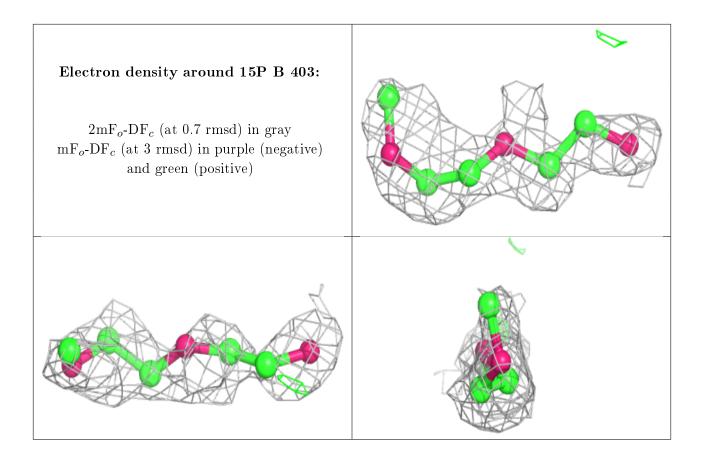
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathbf{A}^2)$	$Q{<}0.9$
3	ACT	А	404	4/4	0.77	0.20	$32,\!33,\!36,\!36$	0
4	GOL	А	405	6/6	0.79	0.17	$26,\!29,\!29,\!30$	0
6	CO2	В	405	3/3	0.84	0.22	$18,\!18,\!18,\!18$	3
2	ISS	А	401	11/11	0.90	0.13	$14,\!18,\!26,\!28$	0
2	ISS	В	401	11/11	0.90	0.14	$14,\!19,\!29,\!29$	0
3	ACT	В	402	4/4	0.95	0.09	$18,\!19,\!19,\!19$	0
3	ACT	А	402	4/4	0.96	0.08	$15,\!15,\!15,\!16$	0

Continued from previous page...

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.







## 6.5 Other polymers (i)

There are no such residues in this entry.

